In the Claims

1. – 26. (Cancelled)

- 27. (Currently amended) A method of producing <u>a construct comprising</u> a recombinant virus-like particle <u>that infects a host organism for expression of the VLP and a first and second exogenous protein in the host organism and the exogenous proteins target[s] specific tissue in a target animal, the method comprising:</u>
- (a) providing a viral genome that infects the host organism wherein the host organism is yeast, bacteria, algae or an animal;
- (b) isolating <u>at least one viral coat protein sequence[[s]] from the viral genome</u> that encodes for a capsid structure;
- (c) inserting at least one first exogenous sequence encoding a protein or peptide of interest into the coat protein sequences, wherein the protein or peptide is antigenic or allergenic in the target animal;
- (d) inserting at least one second exogenous sequence encoding a tissue-targeting protein sequence in the animal into the coat protein sequences, wherein the expressed targeting protein has affinity for a receptor on tissue in the target animal;
- (e) cloning the viral coat protein sequences comprising the first and second exogenous sequences into an appropriate vector <u>for infection of the host organism</u>; and
- (f) transforming a yeast, bacterial or algae the host organism for expression of the recombinant virus-like particle and exogenous peptides or proteins therein, wherein the host organism and target animal are not the same.

28. – 29. (Cancelled)

- 30. (Currently amended) The method of claim 27, wherein more than one first exogenous sequence[[s]] is inserted.
- 31. (Previously presented) The method of claim 27, wherein one or more of the second exogenous sequences has the function of targeting the expressed recombinant virus-like particle to a specific location.
- 32. (Original) The method of claim 27, wherein more than one viral coat protein is isolated.

- 33. (Currently amended) A recombinant virus-like particle produced by the method of claims 27, 29, 30, 31 or 32.
- 34. (Currently amended) A genetic construct comprising at least one nucleotide sequence encoding at least one viral coat protein from a virus that infects a host organism and for expression in the host organism, at least one first exogenous sequence encoding for an antigenic or allergenic protein effective in a target animal, wherein the antigenic or allergenic protein is for displaying on the expressed viral coat protein and at least one second exogenous sequence encoding a tissue-targeting protein having affinity for tissue in the target animal and for displaying on the expressed viral coat protein, wherein the expressed tissue-targeting protein has the function of targeting the expressed genetic construct to a specific location on tissue in the target animal and wherein the host organism and target animal are not the same.
- 35. (Original) The construct of claim 34, wherein more than one viral coat protein has been modified to display foreign proteins or peptides.
- 36. (Cancelled)
- 37. (Original) The construct of claim 34, wherein the exogenous sequence is inserted into a region truncated to remove sequence unnecessary for virus-like particle self-assembly.
- 38. -40 (Cancelled)
- 41. (Withdrawn and currently amended) A method of using the <u>construct of claim 34 as a vaccine</u> recombinant virus like particle of claims 34 39 as a vaccine, comprising: (a) providing the recombinant virus-like particle <u>as expressed in the host organism</u>; and (b) administering the <u>host organism</u> it to a <u>target animal subject</u>.
- 42. (Withdrawn) The method of claim 41, further comprising: (a) infecting an organism with the recombinant virus-like particle of claim 40; and (b) orally feeding the whole biomass of the infected organism to human or non-human animals.
- 43. (Withdrawn) The method of claim 42, wherein the biomass is processed for uniform dosing.

- 44. (Withdrawn) The method of claims 41-43, wherein the biomass is freeze dried.
- 45. (Withdrawn) The method of claims 41-43, wherein the biomass is encapsulated.
- 46. (Withdrawn) The method of claims 41-46, wherein the vaccine is used as a treatment for allergy.
- 47. (Withdrawn) The method of claim 41, wherein the vaccine is administered by injection.
- 48. (Cancelled)